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PATENT TRADEMARK OFFICE

Patent  
Case No.: 56964US002

#194  
8/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: SIMMONS, RICHARD L.  
Application No.: 09/927663      Group Art Unit: 2839  
Filed: August 10, 2001      Examiner: Prasad, Chandrika  
Title: OPTICAL MANIFOLD

AMENDMENT AND REPLY

Mail Stop Petitions  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:	
<u>7-10-03</u> Date	<u>Tom Sanders</u> Signed by: Tom Sanders

Dear Sir or Madam:

This paper is submitted along with the Renewed Petitions Under 37 CFR 1.137(b). This paper specifically addresses the Office Action having a mailing date of October 7, 2002. Please amend the application indicated below.

In the Specification

RECEIVED

On page 1, line 3, in the title, please amend as follows:

JUL 16 2003

A1

THREE DIMENSIONAL OPTICAL CIRCUITS

OFFICE OF PETITIONS

On page 11, lines 5 to 20, please amend as follows:

A2

Referring now to Figure 2, a perspective view of a stacked eight by eight shuffle manifold 200 is shown. As shown here, the input openings 210 and the output openings 220 are arranged in an 8x8 matrix with each of the columns of the input end and rows of the output end arranged in a stacked configuration with support members 230 disposed therebetween. The passages that span between each input opening and each output opening can be smoothed by abrasive laden slurry polishing. Voids 240 can be part of the manifold 200 to reduce the amount of polymeric